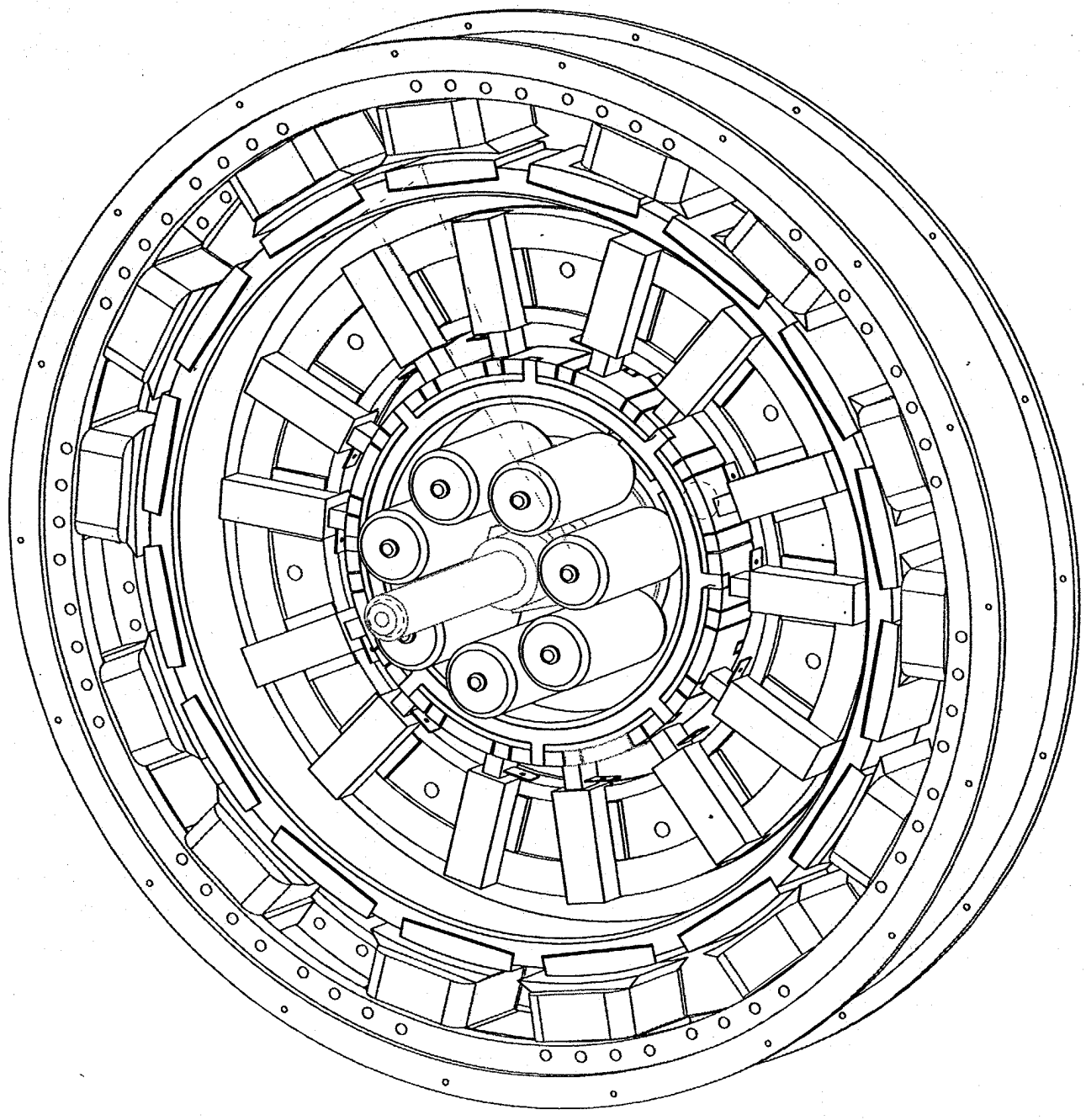


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Fig. 1



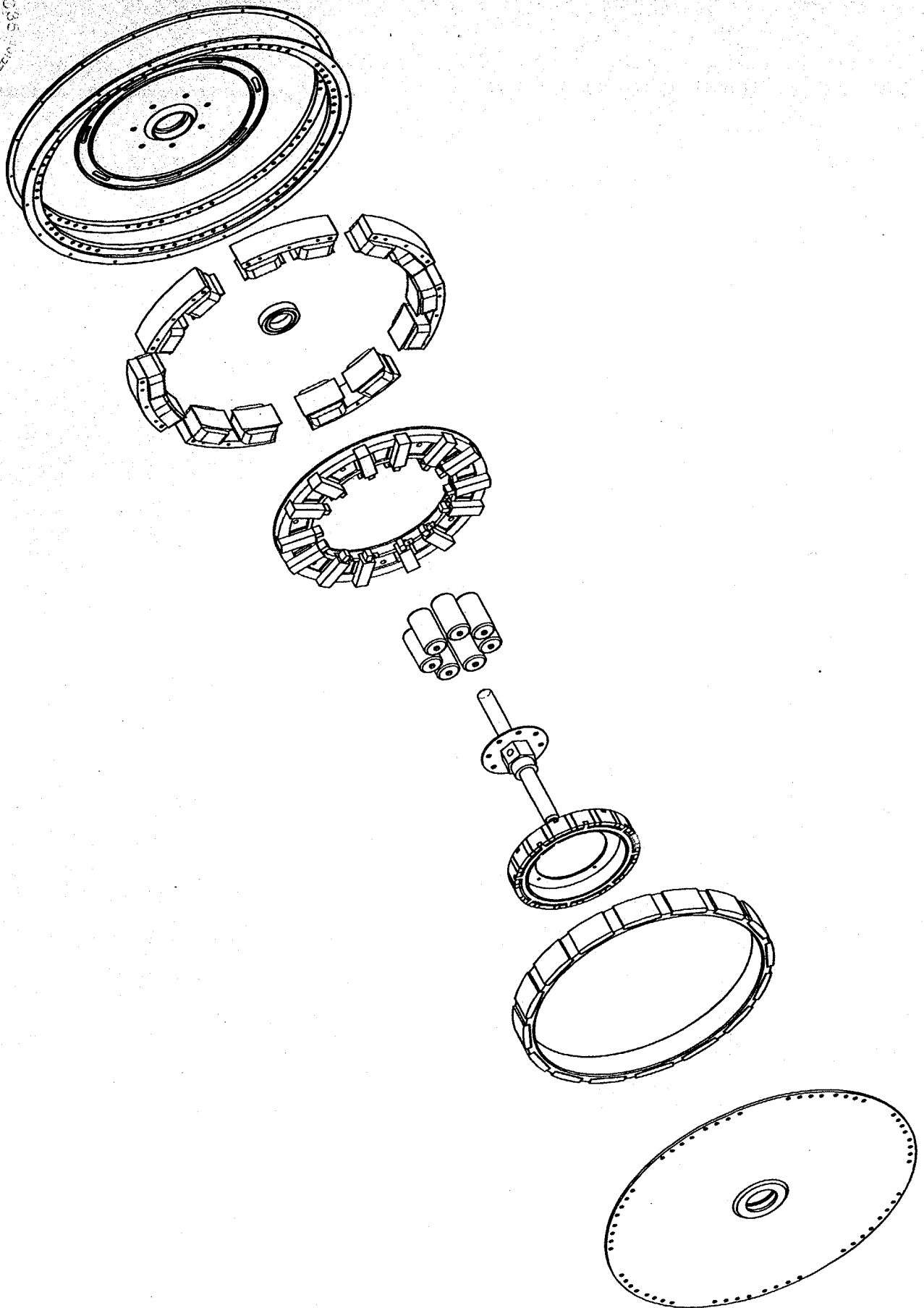
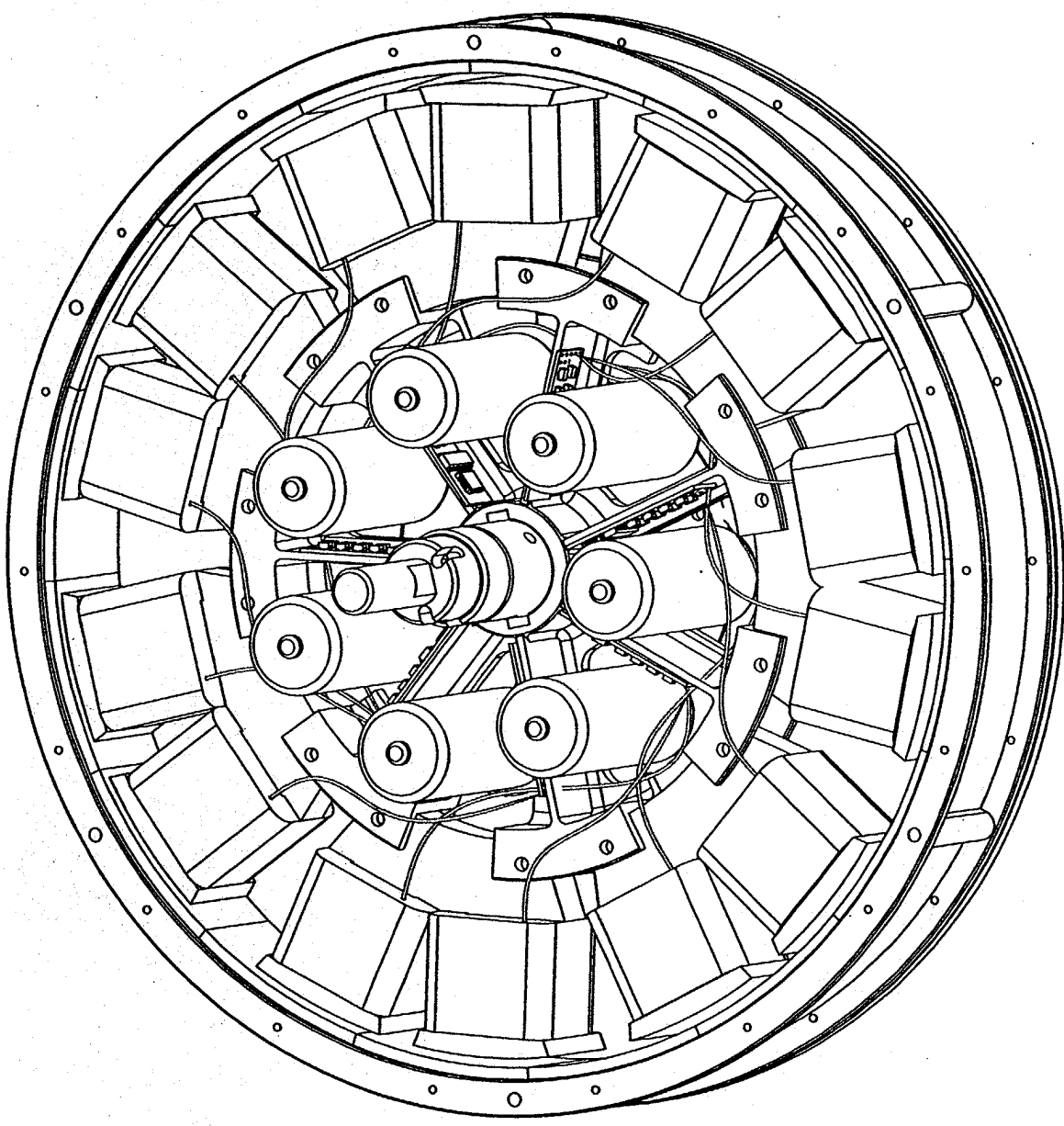


Fig. 1a

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Fig. 2



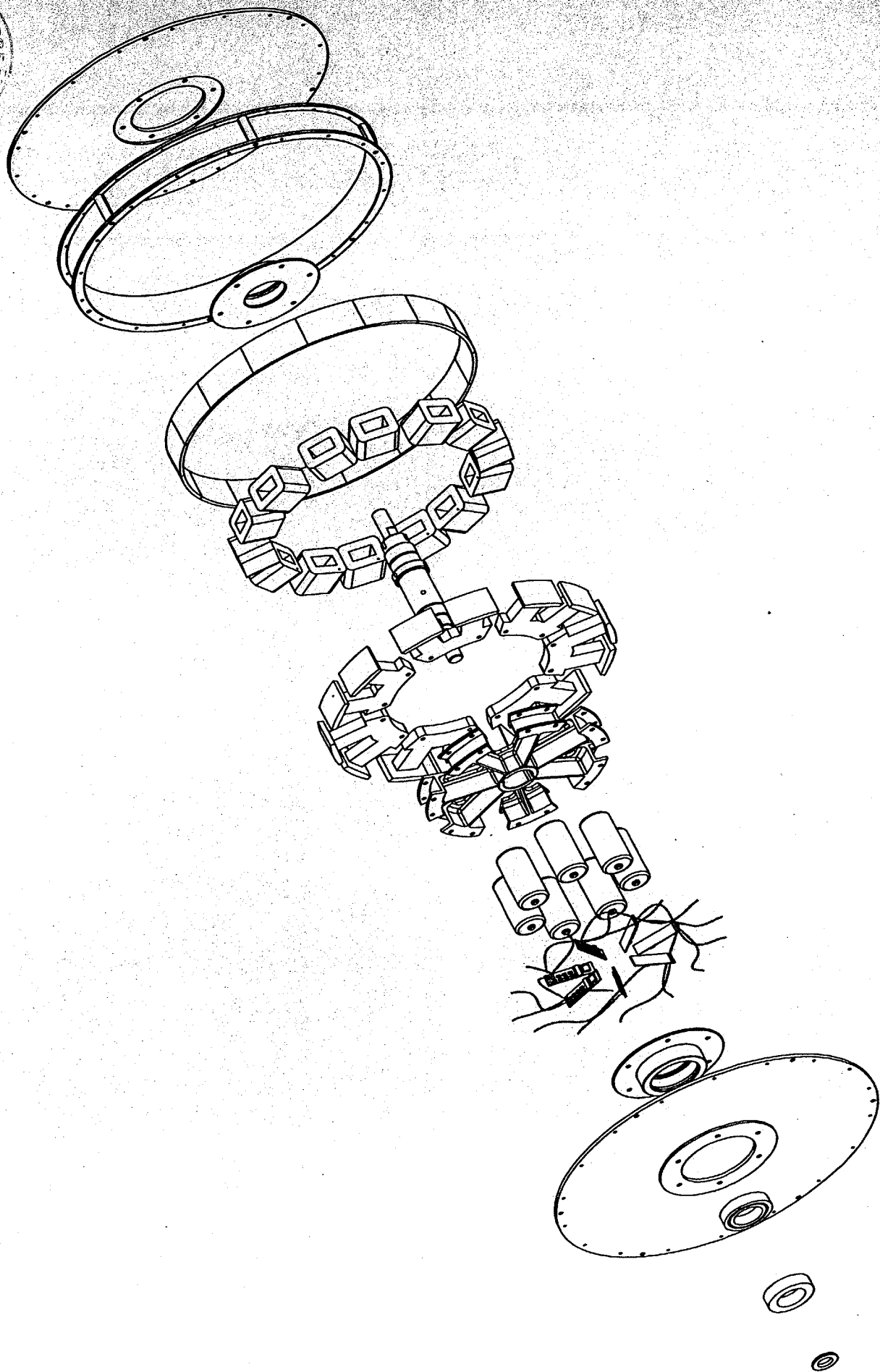
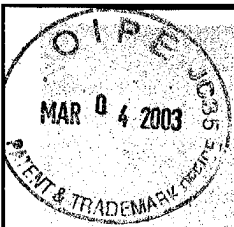


Fig. 2a

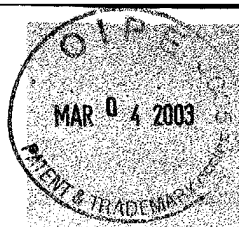
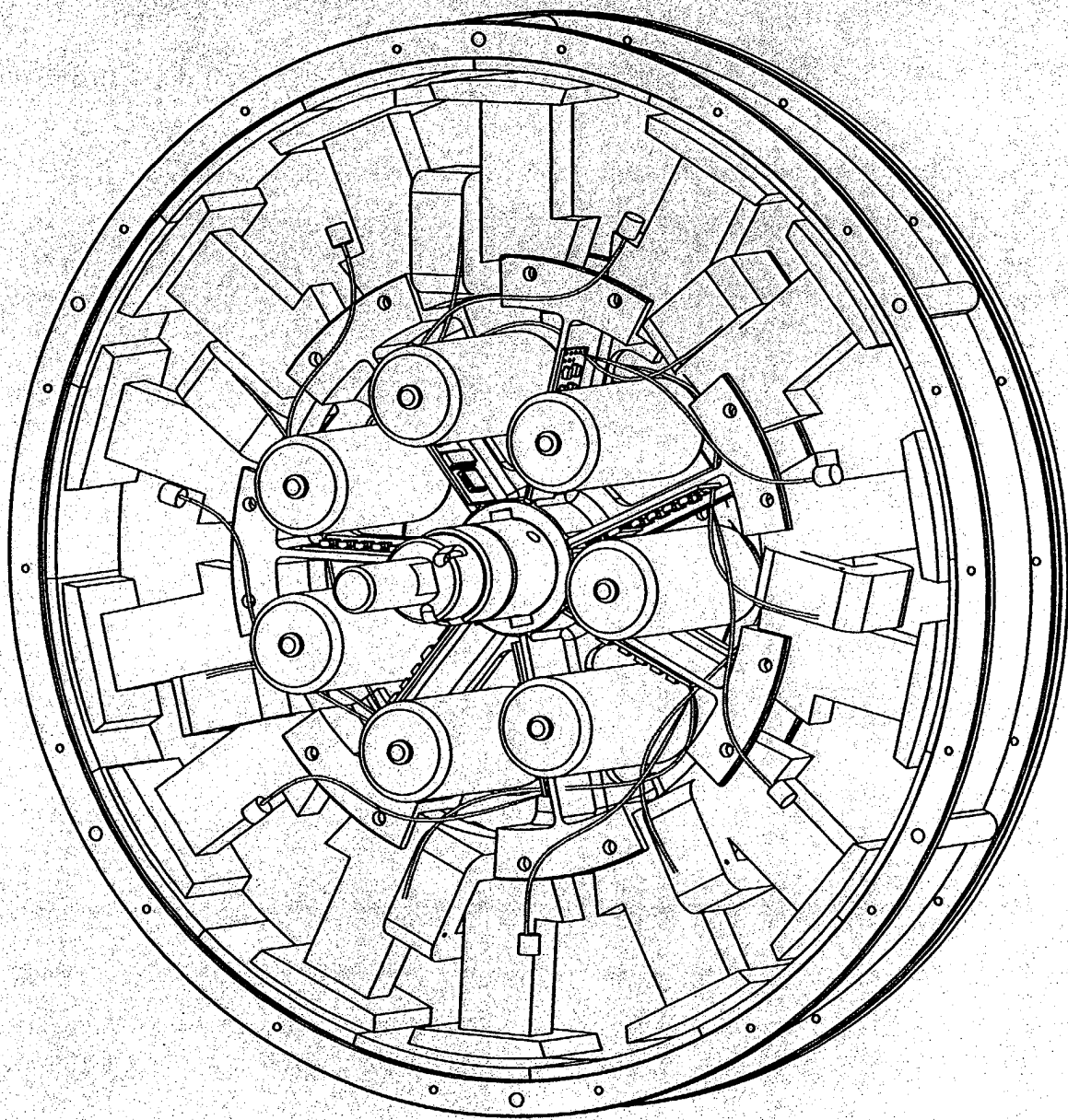
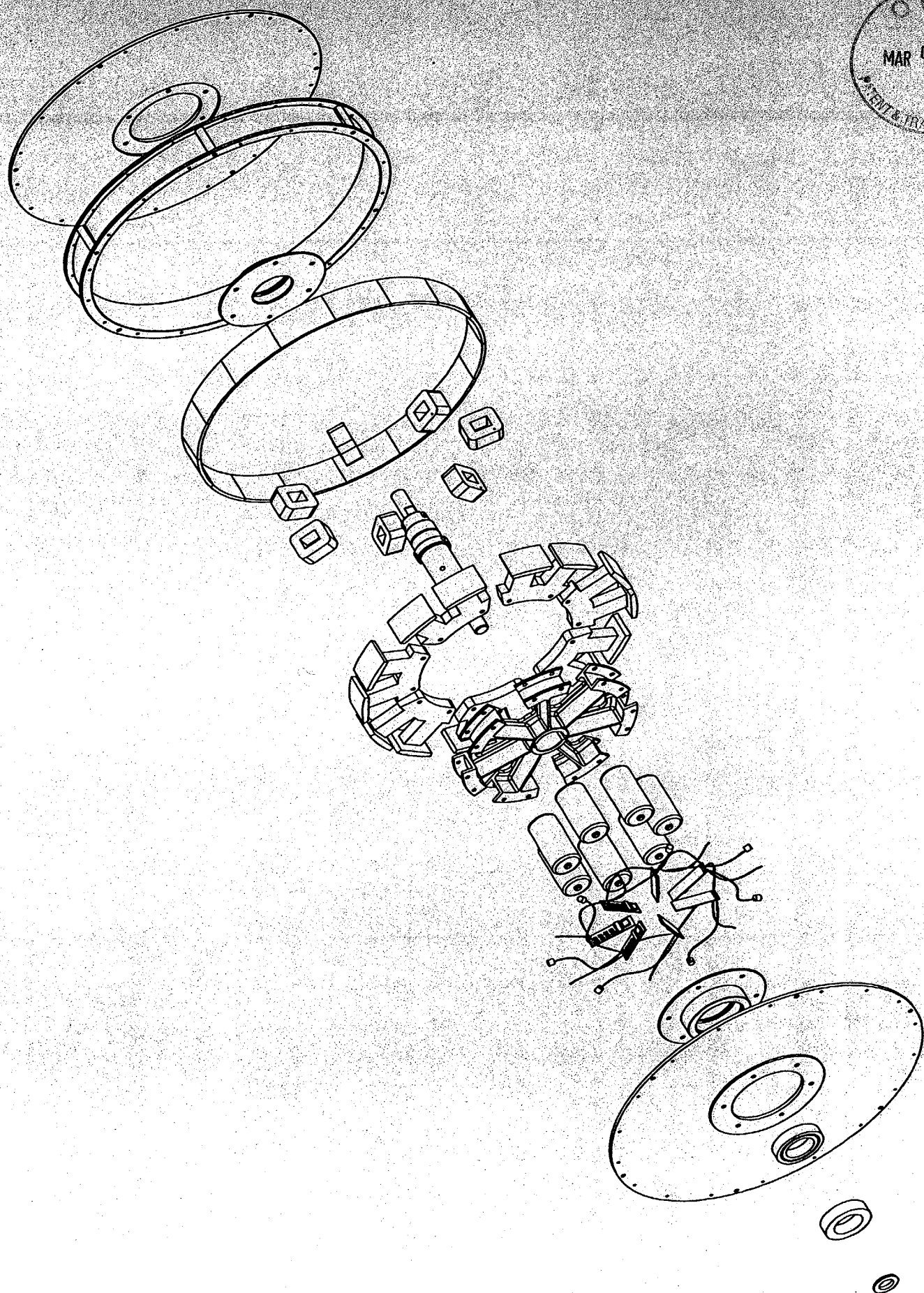


Fig. 3



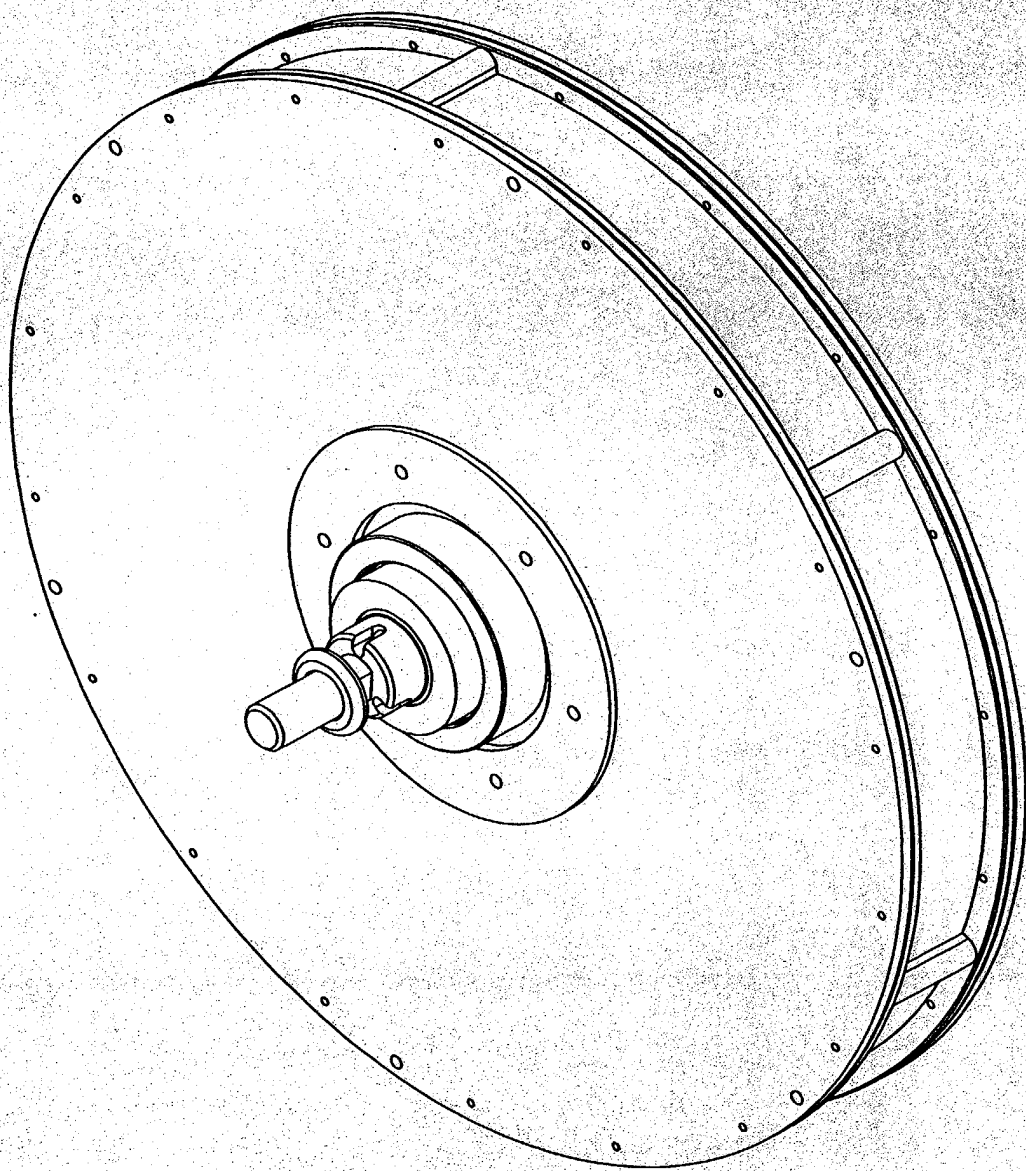
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Fig. 3



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Fig. 4



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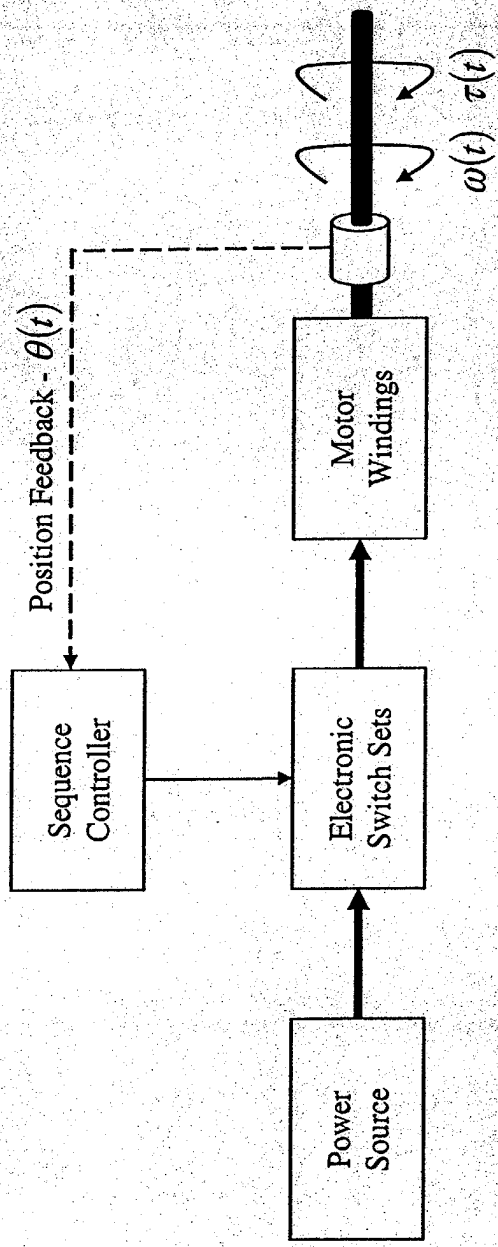


Fig 5

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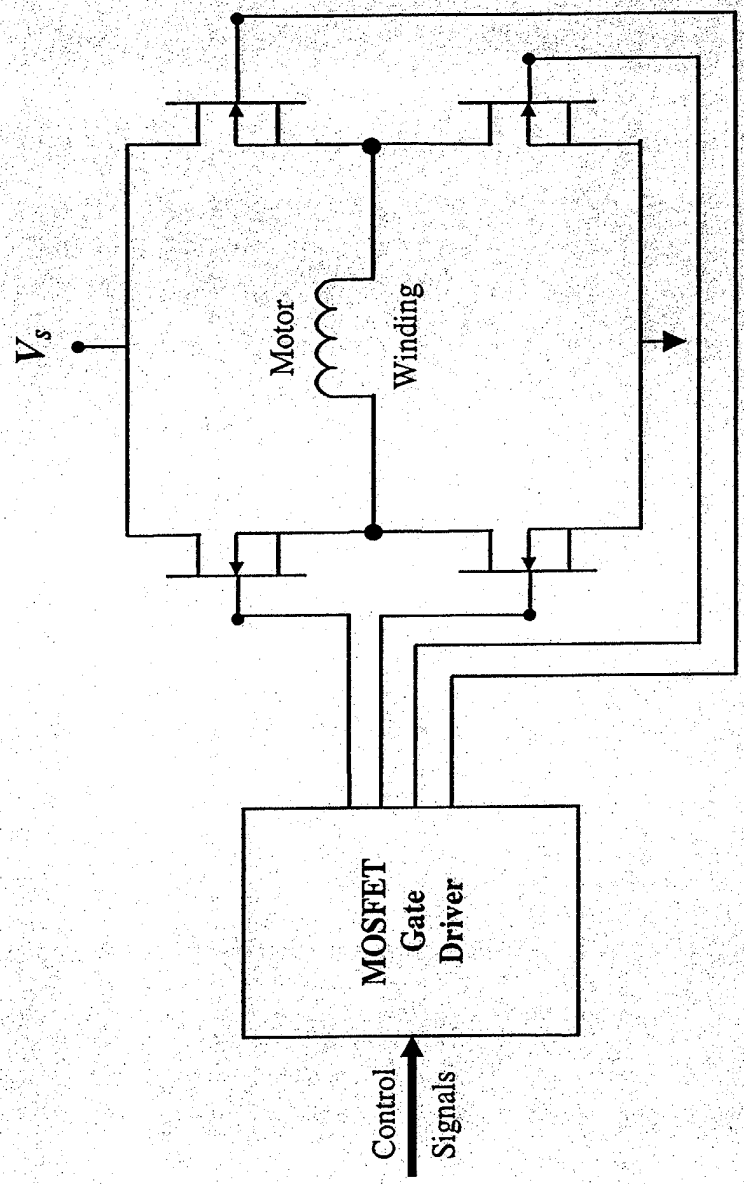


Fig. 6

Hall Sensor Feedback for Gate Firing Sequence

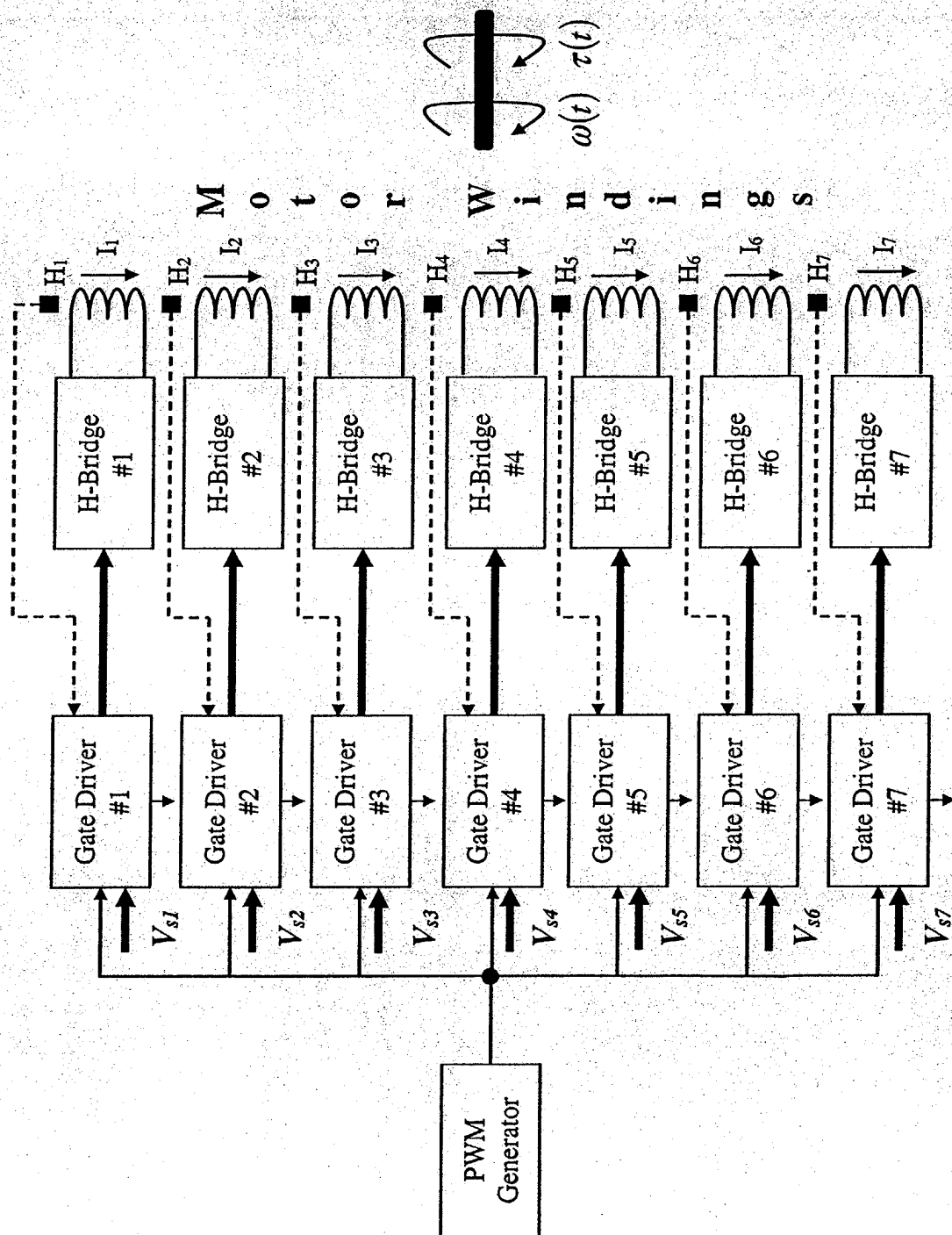


Fig.7

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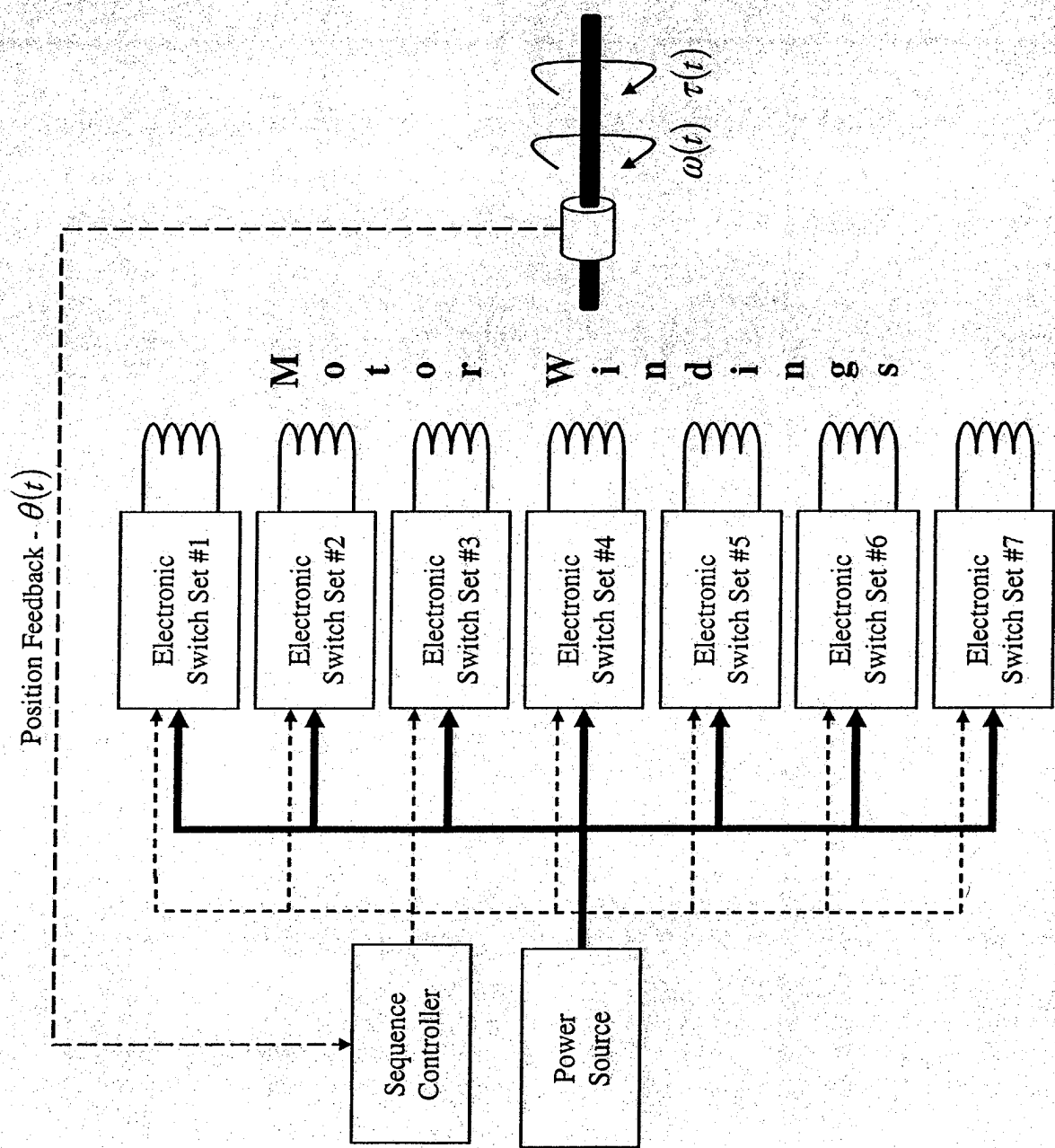


Fig. 8

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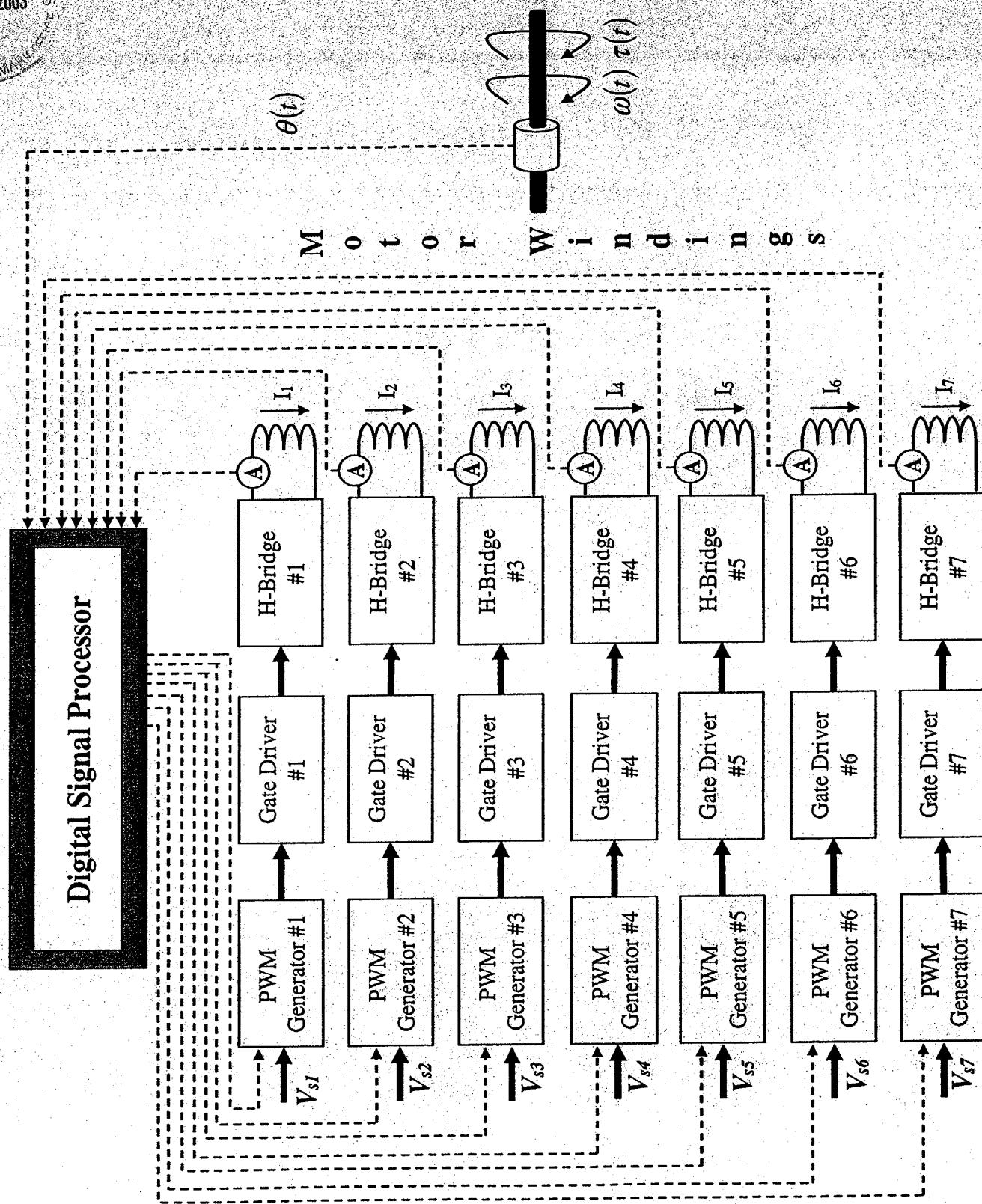


Fig. 9